ORGANOPHOSPHORUS PESTICIDES BY GC
EPA 622

Facility Name:_____VELAP ID_____

Assessor Name:_____Analyst Name:_____Inspection Date_____

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst:_____ Sample ID: _____ Date of Sample Preparation:_____ Date of Analysis:_____					
Is all glassware cleaned ASAP by rinsing with the last solvent used in it. Follow by washing hot water and detergent and thorough rinsing with tap and reagent water followed by heat at 400°C for 15 to 30 minutes or rinsing with acetone and pesticide-grade hexane?	3.1.1				
Are amber bottles with TFE lines bottles used fro sample collection (prewashed with acetone)?	5.1.1				
Are standards 96% purity (then no correction for concentration)? Are less than 96% corrected?	6.4.1				
Are samples stored at < 4 C and extracted within 7 days and completely analyzed within 40 days?	9.2. – 9.3				
Are sample bottles marked for later determination of volume (to be determined to +/- 5 mL)?	10.1				
Is the entire sample transferred to separatory funnel?	10.1				
Is 60 mL methylene chloride added to the sample bottle, sealed, shake n, transferred to the separatory funnel?	10.2				
Is the funnel shaken for 2 minutes and the phases allowed to separate for 10 minutes?	10.2				
Is dried Na2SO4 (muffled at 400 C) added to MeCl	10.5				
Is MeCl concentrated and volume adjusted to 10 mL with hexane?	10.5 – 10.8				
Notes/ Comments:					

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Is the GC equipped with a thermionic bead or flame photometric detector in the phosphorus mode?					
Is the initial calibration performed by calibration curve or by average response factor (<10%) (Internal standard may be used but no compounds listed)?	7.2.2				
Is daily verification of calibration performed using one or more standards?	7.2.3				
Is accuracy and precision determined as 4 replicates of spiked water?	8.2				
Are performance criteria limit determined by calculating or control charting as R +/- 3 sigma?	8.3				
Are matrix spikes determined every 10 samples?	8.4				
Is a blank (1 L water) analyzed with each blank?	8.5				
Are conformations performed using GC/MS or a second dissimilar column?	14.				
Notes/ Comments:					